

What is claimed is:

1. A hard disk module for a modular television including:  
an interface portion for receiving and transmitting data from and to a main board as a transmission stream, wherein the main board is mounted on the modular television;
- 5 a memory having a program stored therein for controlling the entire components connected to a bus disposed inside the hard disk module;  
a recording and reproducing portion for recording the data in a hard disk and reproducing the data recorded in the hard disk; and  
a control portion for controlling the recording and reproducing portion
- 10 such that the recording and reproducing portion records in the hard disk the data provided from the main board through the interface portion when in a recording mode, and when in a reproducing mode, reproduces the data recorded in the hard disk, and provides the reproduced data to the main board through the interface portion.
2. The hard disk module of claim 1, wherein the recording and reproducing portion includes a buffer for sequentially storing a predetermined amount of data therein, wherein the predetermined amount of data is received from and transmitted to the interface portion.
3. The hard disk module of claim 2, wherein the interface portion uses an Institute of Electrical & Electronics Engineers (IEEE) 1394 bus.

4. A recording method of a hard disk module for a modular television including the steps of:

storing data in a buffer in a form of a transmission stream, wherein the data is received from a main board mounted on the modular television via an interface portion;

transmitting an interrupt request (IRQ) signal to a control portion via a recording and reproducing portion when a predetermined amount of data is stored in the buffer; and

transmitting and storing the predetermined amount of data which is stored in the buffer, to a hard disk through the recording and reproducing portion in accordance with a direct memory access (DMA) method.

5. The recording method of claim 4, further including the steps of initializing the hard disk by the control portion when the control portion receives the IRQ signal, and transmitting a DMA command to the recording and reproducing portion.

6. A reproducing method of a hard disk module for a modular television including the steps of:

initializing a hard disk by a control portion and transmitting a direct memory access (DMA) command to a recording and reproducing portion;

receiving data from the hard disk through the recording and reproducing portion in accordance with the DMA command and then storing the data in a buffer;

transmitting an interrupt request (IRQ) signal to the control portion  
through the recording and reproducing portion when a preferred amount of  
10 data is stored in the buffer; and

transmitting the data to the main board through an interface portion in  
accordance with a DMA method.

7. A computer-readable recording medium for storing program codes  
for performing a recording method of a hard disk module for a modular  
television, the recording method including the steps of:

storing data in a buffer in a form of a transmission stream,  
5 wherein the data is received from a main board mounted on the modular  
television via an interface portion;

transmitting an interrupt request (IRQ) signal to a control  
portion via a recording and reproducing portion when a predetermined amount  
of data is stored in the buffer; and

10 transmitting and storing the predetermined amount of data  
which is stored in the buffer, to a hard disk through the recording and  
reproducing portion in accordance with a direct memory access (DMA)  
method.

8. The computer-readable recording medium of claim 7, wherein the  
recording method further includes the steps of initializing the hard disk by the  
control portion when the control portion receives the IRQ signal, and  
transmitting a DMA command to the recording and reproducing portion.

9. A computer-readable recording medium for storing program codes for performing a reproducing method of a hard disk module for a modular television, the reproducing method including the steps of:

initializing a hard disk by a control portion and transmitting a  
5 direct memory access (DMA) command to a recording and reproducing portion;

receiving data from the hard disk through the recording and reproducing portion in accordance with the DMA command and then storing the data in a buffer;

10 transmitting an interrupt request (IRQ) signal to the control portion through the recording and reproducing portion when a preferred amount of data is stored in the buffer; and

transmitting the data to the main board through an interface portion in accordance with a DMA method.

10. A computer system for performing a recording method of a hard disk module for a modular television, comprising:

a processor, and

a memory under control of said processor;

5 wherein said memory includes instructions for enabling said processor to perform said recording method, the recording method including the steps of:

storing data in a buffer in a form of a transmission stream, wherein the data is received from a main board mounted on the modular television via an interface portion;

10                   transmitting an interrupt request (IRQ) signal to a control  
portion via a recording and reproducing portion when a predetermined amount  
of data is stored in the buffer; and

                  transmitting and storing the predetermined amount of data  
which is stored in the buffer, to a hard disk through the recording and  
15   reproducing portion in accordance with a direct memory access (DMA)  
method.

11. The computer system of claim 10, wherein the recording method  
further includes the steps of initializing the hard disk by the control portion  
when the control portion receives the IRQ signal, and transmitting a DMA  
command to the recording and reproducing portion.

12. A computer system for performing a reproducing method of a hard  
disk module for a modular television, comprising:

                  a processor; and

                  a memory under control of said processor;

5                   wherein said memory includes instructions for enabling said processor  
to perform said reproducing method, the reproducing method including the  
steps of:

                  initializing a hard disk by a control portion and transmitting a  
direct memory access (DMA) command to a recording and reproducing  
10   portion;

receiving data from the hard disk through the recording and reproducing portion in accordance with the DMA command and then storing the data in a buffer;

transmitting an interrupt request (IRQ) signal to the control  
15 portion through the recording and reproducing portion when a preferred amount of data is stored in the buffer; and

transmitting the data to the main board through an interface  
portion in accordance with a DMA method.